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Basic of Civil Engineering (3110004) MCQ

1	Stones are obtained from rocks that are made up of:
	(A) Ores
	(B) Minerals
	(C) Chemical compounds
	(D) Crystals
	Ans. B
2	Which one of the following is not a classification of stones?
	(A) Physical Classification
	(B) Mineralogical Classification
	(C) Chemical Classification
	(D) Practical Classification
	Ans. B
3	The hot molten material occurring naturally below the surface of the Earth is called:
	(A) Lava
	(B) Slag
	(C) Magma
	(D) Tuff
	Ans. C
4	At what depth and rate is a hypabyssal rock formed?
	(A) Slow cooling of magma at considerable depth
	(B) Quick cooling of magma at a shallow depth

- 5 What is a sedimentary deposit?
 - (A) Weathered product remains at site
 - (B) Weathered product carried away in solution

(C) Rapid cooling of magma at Earth's surface(D) Rapid cooling of magma at a shallow depth

- (C) Weathered product gets carried away agents
- (D) Insoluble weathered product is carried away in suspension

Ans. D

Ans. B

- Which of the following is not a metamorphic change?
 - (A) Calcite to schist
 - (B) Limestone to marble
 - (C) Shale to slate
 - (D) Granite to gneisses

Ans. A

(C) IS 2368 (D) IS 1542 Ans. B

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Which of the following rocks are hard and durable? (A) Argillaceous rocks (B) Siliceous rocks (C) Calcareous rocks (D) Carbonaceous rocks Ans. B Foliated structure is very common in case of: (A) Sedimentary rocks (B) Plutonic rocks (C) Igneous rocks (D) Metamorphic rocks Ans. D Granite is a type of: (A) Plutonic rock (B) Metamorphic rock (C) Hypabyssal rock (D) Volcanic rock Ans. A 10 Which of the following is a good fire-resistant stone? (B) Granite (C) Quartz (D) Limestone Ans. A 11 What is sand composed of? (A) Silica (B) Silicon (C) Silicon oxide (D) Quartz Ans. A Which of the following sand type is excellent for use in mortar and concrete work? 12 (A) Sea sand (B) Clayey sand (C) Pit sand (D) River sand Ans. C 13 Which IS code gives the grading of sand? (A) IS 456 (B) IS 383

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works?

the grain size distribution?

14	What type of grains constitutes river sand?
	(A) Angular
	(B) Flaky
	(C) Irregular
	(D) Rounded
	Ans. D
15	How many classifications are there for sand based on
	(A) 3
	(B) 2
	(C) 5
	(D) 4
	Ans. A
16	Fine sand is generally used for which of the following
	(A) Masonry
	(B) Concrete structures
	(C) Plastering
	(D) Grinding and polishing
	Ans. C
17	How is M-sand produced?
	(A) Crushing bricks
	(B) Quarrying
	(C) Reusing the debris of demolished building
	(D) Crushing granite stones
	Ans. D
18	By which of the following ways is lime obtained?
	(A) Naturally
	(B) Quarrying
	(C) Burning limestone
	(D) Crushing limestone
	Ans. C
19	Which of the following pairs is matched properly?
	(A) Class A – Concrete work
	(B) Class B – Mortar
	(C) Class C – Masonry work
	(D) Class D – White washing
	Ans. B
20	Which of the following is a property of Fat Lime?
	(A) Shakes very slowly
	(B) Contains clay
	(C) High degree of plasticity
	(D) Poor binding property
	Ans. C

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- 21 Lime obtained from calcination of Pure Limestone is called:
 - (A) Quick Lime
 - (B) Pure Lime
 - (C) Lean Lime
 - (D) Rich Lime

Ans. A

- Which of the following slakes after few minutes?
 - (A) Moderately Hydraulic Lime
 - (B) Eminently Hydraulic Lime
 - (C) Perfectly Hydraulic Lime
 - (D) Feebly Hydraulic Lime

Ans. D

- 23 Which of the following types of Lime does not exist?
 - (A) Dolomitic Lime
 - (B) Roman Lime
 - (C) Semi-Hydraulic Lime
 - (D) Selentic Lime

Ans. B

- 24 Why is natural cement used very limitedly?
 - (A) Brown in Colour
 - (B) Standard consistency is not met with
 - (C) Sets too quickly
 - (D) Particle size is too fine

Ans. C

- 25 Who invented Portland cement and in which year?
 - (A) William Aspdin, 1824
 - (B) William Aspdin, 1840s
 - (C) Joseph Aspdin, 1840s
 - (D) Joseph Aspdin, 1824

Ans. B

- 26 What is the average particle size of cement?
 - (A) 15 microns
 - (B) 45 microns
 - (C) 75 microns
 - (D) 100 microns

Ans. A

- 27 What is the meaning of soundness of cement?
 - (A) Ability to flow when mixed
 - (B) Ability to make ringing noise when struck
 - (C) Ability to form strong and sound structure
 - (D) Ability to retain volume after setting.

Ans. D

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- 28 Time elapsed from the instance of adding water until paste ceases to behave as fluid is called:
 - (A) Initial setting time
 - (B) Final setting time
 - (C) Intermediate setting time
 - (D) Absolute setting time

Ans. A

- 29 Which of the below mentioned is not a result of field test performed on cement?
 - (A) There should not be any lumps
 - (B) It should feel cold when you put your hand in bag of cement
 - (C) The colour should be blackish grey
 - (D) It should not be gritty when rubbed with finger

Ans. C

- 30 Which equipment is used to test the setting time of cement?
 - (A) Core cutter
 - (B) Vibrator
 - (C) Universal testing machine (UTM)
 - (D) Vicat apparatus

Ans. D

- 31 What is the initial setting time of cement?
 - (A) 1 hour
 - (B) 30 minutes
 - (C) 15 minutes
 - (D) 30 hours

Ans. B

- 32 Use of coarser cement particles leads to:
 - (A) Low durability
 - (B) Higher strength
 - (C) Low consistency
 - (D) Higher soundness

Ans. A

- 33 Green cement is:
 - (A) Green coloured cement
 - (B) Cement mixed with plant products
 - (C) Cement mixed with recycled materials
 - (D) Cement mixed with green algae

Ans. C

- What is the depth the needle in Vicat apparatus should penetrate into the cement paste in consistency test?
 - (A) 33-35 cm from bottom of the mould
 - (B) 33-35 mm from top of the mould
 - (C) 33-35 cm from top of the mould

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(D) 33-35 m	m from	bottom	of	the	moul	d
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Ans. B

- 35 What is the most dominant constituent of cement?
 - (A) Silica
 - (B) Lime
 - (C) Magnesia
 - (D) Alumina

Ans. B

- 36 Deficiency of lime in cement leads to:
 - (A) Unsound cement
 - (B) Disintegration of cement
 - (C) Quick setting of cement
 - (D) Expansion of cement

Ans. C

- 37 What effect does calcium sulphate have on cement?
 - (A) Retards setting action
 - (B) Acts as flux
 - (C) Imparts colour
 - (D) Reduces strength

Ans. A

- 38 Which of the following adds a quick-setting property to cement?
 - (A) Magnesium oxide
 - (B) Silicon dioxide
 - (C) Iron oxide
 - (D) Aluminium oxide

Ans. D

- 39 Which of the following imparts greenish grey colour to cement?
 - (A) Calcium silicate
 - (B) Calcium aluminate
 - (C) Calcium aluminate ferrite
 - (D) Calcium carbonate

Ans. C

- 40 Excess of Alkali in cement results in:
 - (A) Dry cement paste
 - (B) Efflorescence
 - (C) Less plasticity
 - (D) Unsound cement

Anc B

- 41 What function does iron oxide perform in cement?
 - (A) Increases strength
 - (B) Makes cement sound
 - (C) Increases setting time

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	(D) Acts as flux	
	Ans. D	
42	What is the abbreviation of PPC?	
	(A) Perfect Portland Cement	
	(B) Portland Produced Cement	
	(C) Portland Pozzolana Cement	
	(D) Productive Portland Cement	
	Ans. C	
43	Which of the following is not an ad	vantage of rapid hardening cement?
	(A) Faster construction	and a superior of the superior
	(B) Short curing period	
	(C) Light in weight	
	(D) Higher final setting time	
	Ans. D	
44	How many types of cement are there	re based on the ability to set in presence of water?
	(A) 2	
	(B) 3	
	(C) 4	
	(D) 5	
	Ans. A	
45	What property does air-entraining	cement provide?
	(A) Workability	
	(B) Soundness	
	(C) Fineness	
	(D) Strength	
	Ans. A	
46	How many constituents are there in	the brick earth?
	(A) 5	
	(B) 4	
	(C) 6	
	(D) 8	
	Ans. A	
47		important ingredient in the brick earth?
	(A) Alumina	
	(B) Lime	
	(C) Silica	
	(D) Magnesia	
	Ans. C	
48	In what form should lime be presen	it in the brick earth?
	(A) Paste	
	(B) Lump	
	(C) Clinker	

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(D)	Pow	der
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Ans. D

- 49 Excess of oxides of iron makes the brick:
 - (A) Red in colour
 - (B) Black in colour
 - (C) Dark blue in colour
 - (D) Yellow in colour

Ans. C

- 50 What happens to raw bricks if an excess of alumina is present?
 - (A) Becomes hard
 - (B) Becomes brittle
 - (C) Decay
 - (D) Shrinkage

Ans. D

- 51 What is the harmful effect of presents of alkali in brick earth on bricks?
 - (A) Discolourises bricks
 - (B) Efflorescence
 - (C) Porous bricks
 - (D) Flaking

Ans. B

- 52 Why do bricks become brittle when excess silica is present?
 - (A) Pores are created
 - (B) Flaking occurs
 - (C) Thermal stability is lost
 - (D) Cohesion is lost

Ans. D

- 53 Which of the following leads to the formation of small pores in brick?
 - (A) Iron pyrites
 - (B) Pebbles
 - (C) Organic matter
 - (D) Alkalis

Ans. C

- 54 The presence of which of the below renders clay totally unsuitable for brick manufacture?
 - (A) Kallar
 - (B) Kankar
 - (C) Hay
 - (D) Lime

Ans. A

- 55 Unburnt bricks are also called:
 - (A) Dry bricks
 - (B) Clayey bricks
 - (C) Kucha bricks

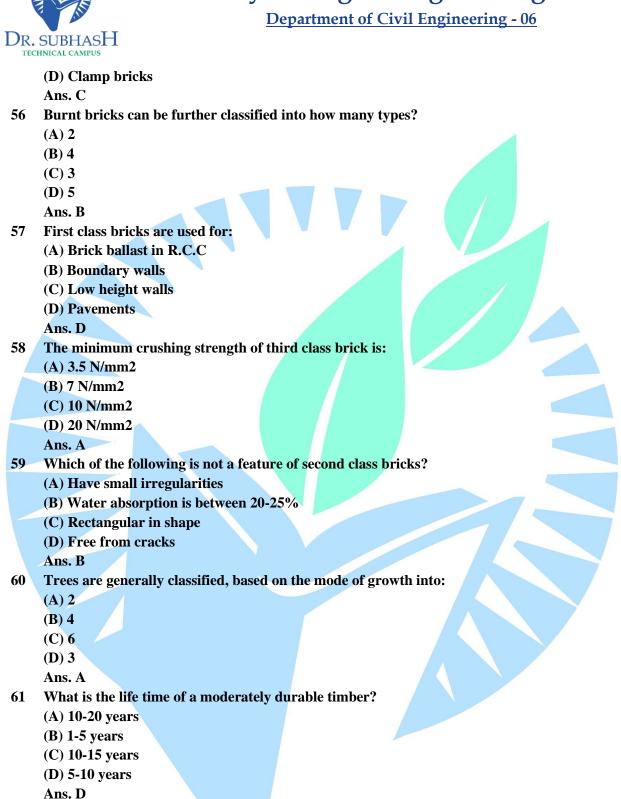
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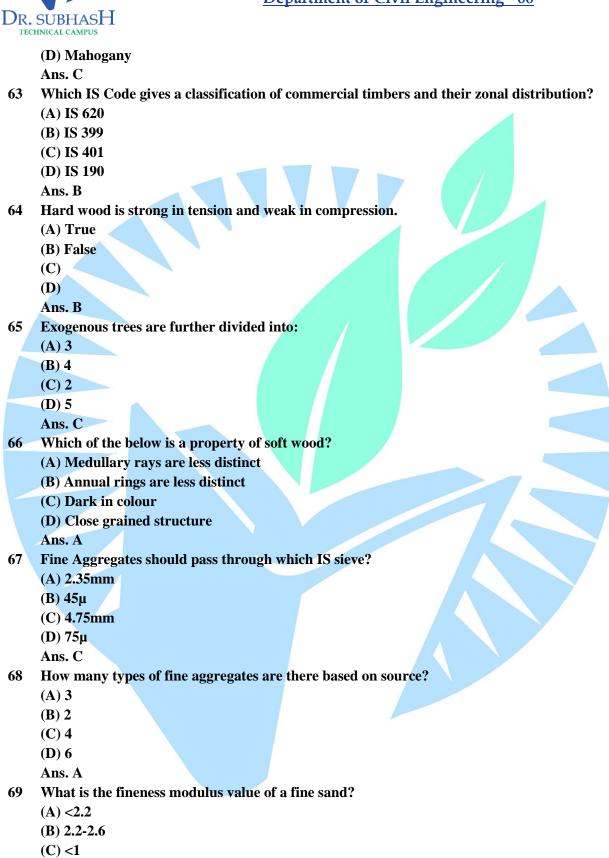
(A) Sal (B) Oak (C) Deodar

Which of the following is an example of soft wood?

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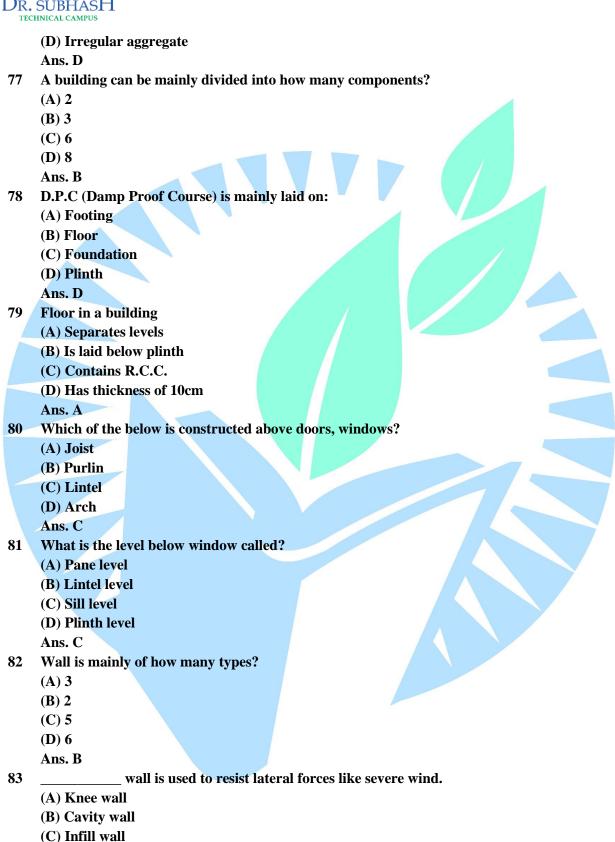
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	(D) 1-2
	Ans. B
70	M-Sand has type of particle shape.
	(A) Flaky
	(B) Round
	(C) Angular
	(D) Cubical
	Ans. D
71	The specific gravity for sand is:
	(A) 2.6
	(B) 2.65
	(C) 2.8
	(D) 2.75
	Ans. A
72	Graded aggregate contains particles of size:
	(A) Single grade
	(B) 4.75mm
	(C) Multi grade
	(D) <80mm
	Ans. C
73	Flaky particles have:
	(A) Small thickness
	(B) Elongated sides
	(C) Sharp edges
	(D) Rounded edges
	Ans. A
74	Which size coarse aggregate is ideal for use in a concrete mix?
	(A) Smaller
	(B) 4.75-10mm
	(C) Larger
	(D) 10-20mm
	Ans. C
75	In crushing test on coarse aggregates, what size particle is taken as a sample?
	(A) Passing 12.5mm IS sieve
	(B) Retained on 10mm IS sieve
	(C) Passing 10mm and retained on 4.75mm IS sieve
	(D) Passing 12.5mm and retained on 10mm IS sieve
5 (Ans. D
76	Gravel is a type of:
	(A) Rounded aggregate
	(B) Angular aggregate
	(C) Flaky aggregate

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(D) Shear wall

Ans. D

- 84 The outer projection on the tread of a stair is:
 - (A) Going
 - (B) Outcrop
 - (C) Bulge
 - (D) Nosing

Ans. D

- 85 Mortar comes from the Latin word:
 - (A) Mortare
 - (B) Mortarum
 - (C) Mortaer
 - (D) Mortarium

Ans. D

- **86** The first used Mortar was:
 - (A) Lime mortar
 - (B) Mud mortar
 - (C) Cement mortar
 - (D) Organic mortar

Ans. B

- 87 Polymer Cement Mortar (PCM) is used primarily for:
 - (A) Repairing concrete structure
 - (B) Stone masonry
 - (C) Tile masonry
 - (D) Brick masonry

Ans. A

- 88 The guidelines for preparation for mortar is given in:
 - (A) IS 4455
 - (B) IS 2250-1981
 - (C) IS 3350-1981
 - (D) IS 5567

Ans. B

- 89 Which of the below is added to make mortar fire proof?
 - (A) Gypsum
 - (B) Asbestos cement
 - (C) Powdered glass
 - (D) Aluminous cement

Anc T

- 90 The setting speed of mortar can be increased using:
 - (A) Lime
 - (B) Sulphur
 - (C) Pozzolana

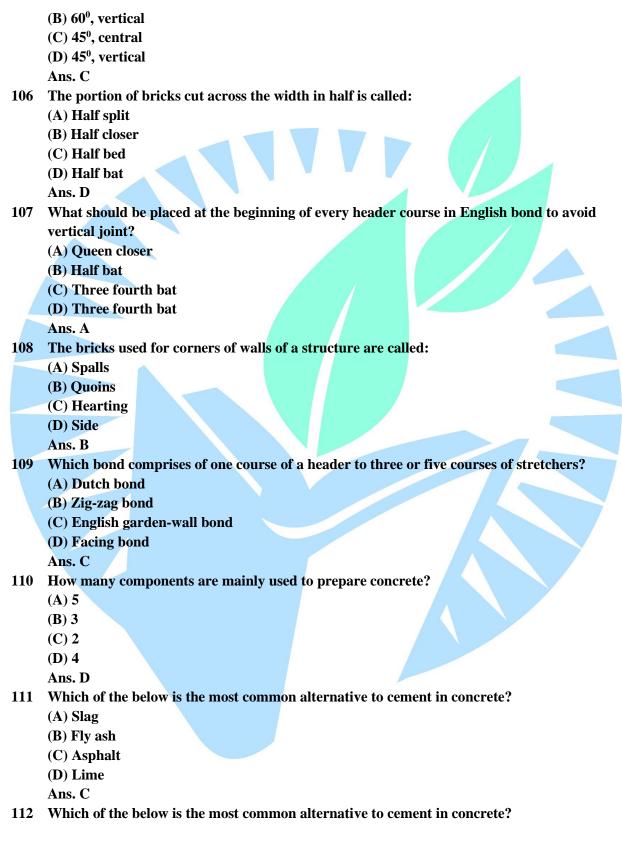
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	(D) Gypsum
	Ans. A
91	Which of the below mortar can settle under water?
	(A) Hydrolytic
	(B) Pozzolana
	(C) Lime
	(D) Flyash
	Ans. B
92	Which stone is used for buildings situated in industrial towns?
	(A) Marble slab
	(B) Compact sandstone
	(C) Gneiss
	(D) Slate
	Ans. B
93	Rubble masonry is sub-divided into:
	(A) 4
	(B) 2
	(C) 6
	(D) 10
	Ans. C
94	Which of the below joints is used for masonry in arches?
	(A) Butt
	(B) Table
	(C) Rebated
	(D) Dowel
	Ans. C
95	Which ratio of cement mortar is used for stone masonry?
	(A) 1:6
	(B) 1:3
	(C) 1:8
	(D) 1:4
0.0	Ans. B
96	Ashlar masonry uses:
	(A) Dimension stones
	(B) Polygonal stones
	(C) Quarry dressed stones (D) Square stones
	(D) Square stones Ans. A
97	masonry occupies an intermediate position between rubble masonry and
91	ashlar masonry.
	(A) Rubble block in a course
	(B) Ashlar rubble in course
	(D) ADDING THEORIES.

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	(C) Ashlar block in a course
	(D) Rubble ashlar in course Ans. C
98	Great skill and skilled labour are required for laying:
70	(A) Coursed rubble masonry
	(B) Ashlar fine masonry
	(C) Ashlar chamfered masonry
	(D) Dry rubble masonry
	Ans. D
99	How many types of brick masonry are possible?
,,	(A) 4
	(B) 2
	(C) 5
	(D) 6
	Ans. A
101	In which bond brick is laid with its length in the direction of a wall?
	(A) Header
	(B) Flemish
	(C) Stretcher
	(D) English
	Ans. C
102	Which of the below should be avoided in brick masonry?
	(A) Horizontal joints
	(B) Queen closer
	(C) Brick bat
	(D) Vertical joints
	Ans. D
103	bond is better in appearance than English bond.
	(A) Flemish
	(B) Double Flemish
	(C) Single Flemish
	(D) Poly Flemish
	Ans. B
104	Flemish bond is expensive than English bond.
	(A) True
	(B) False
	(C)
	(D)
105	Ans. B
105	In Herringbone bond, bricks are placed at angle from line in both
	directions.
	(A) 60°, central

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	(A) Slag
	(B) Fly ash
	(C) Asphalt
	(D) Lime
	Ans. C
113	What is the ideal water-cement ratio to be used while hand mixing?
113	(A) 0.4-0.5
	(B) 0.5-0.6
	(C) 0.6-1
	(C) 0.0-1 (D) 1.6-2
	Ans. B
114	Retarders are used for:
114	(A) Construction of high rise building
	(B) Repair works
	(C) Cold weather conditions
	(D) Grouting deep oil wells
	Ans. D
115	is added to make white concrete.
	(A) Fly ash
	(B) Metakaolin
	(C) Rise husk
	(D) Pigments
	Ans. B
116	As water cement ratio increases, also increases.
	(A) Compressive strength
	(B) Tensile strength
	(C) Bleeding
	(D) Workability
	Ans. D
117	Which of the below is an example of plasticizer?
	(A) Hydroxylated carboxylic acid
	(B) Fluoro-silicate
	(C) Gypsum
	(D) Surkhi
	Ans. A
118	Which component of concrete gives it desired compressive strength?
	(A) Water
	(B) Cement
	(C) Aggregates
	(D) Admixture
	Ans. C
119	What is the ratio of the component in grade M20 concrete?

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	(A) 1:3:6
	(B) 1:1.5:3
	(C) 1:1:2
	(D) 1:2:4
	Ans. B
120	The most common type of door is:
	(A) Double leaf door
	(B) Louvred door
	(C) Single leaf door
	(D) Battened door
	Ans. C
121	A casement window hung horizontally is called:
	(A) Hopper
	(B) Awning
	(C) Pivot
	(D) Transom
	Ans. B
122	Light, a term used in windows, is:
	(A) Area between outer parts of a window
	(B) Glazed part of the window
	(C) Area between inner parts of a window
	(D) Opening of the window allowing light
	Ans. A
123	If a door swings towards the person opening it, it is called:
	(A) Left handed
	(B) Reverse
	(C) Normal
	(D) Right handed
	Ans. B
124	Which of the below material of window has life span of 50 years?
	(A) PVC
	(B) Steel
	(C) UPVC
	(D) Aluminum
	Ans. C
125	door swings both ways.
	(A) Mead
	(B) Dutch
	(C) Garden
	(D) French
101	Ans. A
126	The difference between magnetic north and geographic north is:

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	(A) Dip
	(B) Strike
	(C) Declination
	(D) Bearing
	Ans. C
127	In the triangulation method, the whole area is divided into:
	(A) Scale triangles
	(B) Triangles
	(C) Obtuse triangles
	(D) Well-conditioned triangles
	Ans. D
128	A stone that marks boundary is called:
	(A) Merestone
	(B) Milestone
	(C) Metestone
	(D) Linestone
	Ans. A
129	Which of the below is not a classification of surveying?
	(A) Marine
	(B) Basement
	(C) Astronomical
	(D) Land
	Ans. B
130	EDM stands for:
	(A) Errorless Distance Measurement
	(B) Electronic Direct Measurement
	(C) Electronic Distance Measurement
	(D) Errorless Direct Measurement
	Ans. C
131	Plane and geodetic surveying are classifications of surveying based on:
	(A) Methodology
	(B) Earth's curvature
	(C) Object of survey
	(D) Instrument
122	Ans. B
132	errors are small unavoidable fluctuation.

- (A) Random
 - (B) Gross
 - (C) Systematic
 - (D) Mistake

Ans. A

133 Which of the below is not a means of linear surveying methods?

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	(A) Theodolite
	(B) EDM
	(C) Tape
	(D) Chain
	Ans. A
134	An offset is a distance of an object measured from the survey line.
	(A) Lateral
	(B) Horizontal
	(C) Normal
	(D) Inclined
	Ans. A
135	Which of the below is not an instrument used to set right angles?
	(A) Cross staff
	(B) Site square
	(C) Optical staff
	(D) Prism square
	Ans. C
136	How many types of chains are used in chain surveying?
	(A) 4
	(B) 5
	(C) 6
	(D) 8
	Ans. B
137	Gunter's chain consists of links.
	(A) 500
	(B) 50
	(C) 1000
	(D) 100
	Ans. D
138	The process of a location of intermediate points on a survey line is:
	(A) Aligning
	(B) Extending
	(C) Ranging
	(D) Offsetting
	Ans. C
139	The biggest of the survey line is called:
	(A) First line
	(B) Base line
	(C) Tie line
	(D) Main survey line
	Ans. B
140	Chain surveying uses the principle of:

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TEC	HNICAL CAMPUS		
	(A) Traversin	g	
	(B) Chaining	0	
	(C) Ranging		
	(D) Triangula	tion	
	Ans. D		
141		ways can ranging be carried out?	
	(A) 2	, , , ,	
	(B) 3		
	(C) 4		
	(D) 5		1
	Ans. A		
142	The book in w	which chain measurements are entered is cal	led:
	(A) Field book		
	(B) Record bo	ook	
	(C) Study boo	k /	
	(D) Chain boo	ok /	
	Ans. A		
143	How many ty	pes of cross staff are available?	
	(A) 2		
	(B) 5		
	(C) 3		
	(D) 4		
	Ans. C		
144	Survey station	ns may be marked on the ground using a:	
	(A) Pole		
	(B) Rod		
	(C) Pointer		
	(D) Peg		
	Ans. D		
145	The direction	of a line relative to a given meridian is calle	d:
	(A) Bearing		
	(B) Declinatio	n	
	(C) Angle		
	(D) Dip		
	Ans. A		
146	How many typ	pes of a compass are used in surveying?	
	(A) 4		
	(B) 2		
	(C) 3		
	(D) 5		
	Ans. B		
147	1	bearing is measured in the direction of surv	PV.

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- (A) Primary
- (B) First
- (C) Fore
- (D) Front

Ans. C

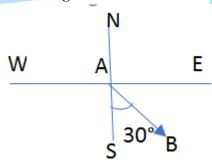
- 148 In a reduced bearing system, bearing is measured from:
 - (A) Nearest one (North or South)
 - (B) South
 - (C) West
 - (D) North

Ans. A

- 149 Prismatic Compass is based on the reduced bearing system.
 - (A) True
 - (B) False
 - **(C)**
 - **(D)**

Ans. B

150 The bearing of line AB as shown below is represented in reduced bearing as:



- (A) N150°
- (B) E60°S
- $(C) S30^{\circ}$
- (D) S30°E

Ans. D

- 151 How many meridians are used in surveying?
 - (A) 6
 - **(B)** 8
 - (C)3
 - (D) 5

Ans. C

- 152 _____ is a term used that prevents the needle from pointing to the magnetic North in a given locality.
 - (A) Local attraction
 - (B) Declination

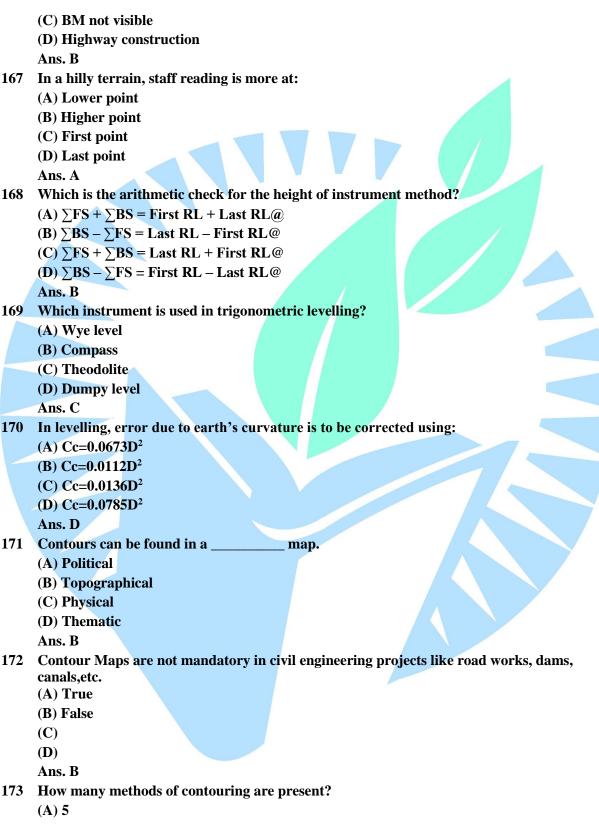
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	(C) Deviation
	(D) Local distraction
	Ans. A
153	line is the line drawn through points of the same declination.
	(A) Polygonic
	(B) Isogonic
	(C) Syngonic
	(D) Agonic
	Ans. B
154	Which of the below is not a temporary adjustment of the prismatic compass?
	(A) Centring
	(B) Levelling
	(C) Focussing prism
	(D) Adjusting sight vane
	Ans. D
155	How many types of variations in declination are there?
	(A) 4
	(B) 5
	(C) 2
	(D) 3
	Ans. A
156	A levelling staff is used to establish:
	(A) Horizontal line of sight
	(B) Vertical line of sight
	(C) Location of points
	(D) Distance of points
	Ans. A
157	Dumpy level was originally designed by:
	(A) Fennel
	(B) Heerbrugg
	(C) Stanley
	(D) Gravatt
	Ans. D
158	Which of the below is used to make a line of sight horizontally in a level?
	(A) Foot screws
	(B) Levelling head
	(C) Telescope
	(D) Tangent screws
	Ans. A
159	A digital level reads a:
	(A) Target staff
	(B) Barcoded staff

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	(C) Digital staff	
	(D) Telescopic staff	
	Ans. B	
160	Which of the below cannot be used to me	easure vertical heights?
	(A) Self level	
	(B) Aneroid barometer	
	(C) Transit	
	(D) Hypsometer	
	Ans. C	
161	How many types of self-reading staff are	available?
	(A) 5	
	(B) 2	
	(C) 3	
	(D) 4	
	Ans. C	
162	Which of the below is not common in all	levelling equipment?
	(A) Telescope	
	(B) Level vials	
	(C) Level rods	
	(D) Tilting screws	
	Ans. D	
163	Trigonometric levelling is also called:	
	(A) Indirect levelling	
	(B) Differential levelling	
	(C) Fly levelling	
	(D) Profile levelling	
	Ans. A	
164	In levelling, the first and last	point are at a far distance.
	(A) Fly	
	(B) Differential	
	(C) Profile	
	(D) Reciprocal	
4	Ans. B	
165	Stadia levelling is a modified form of:	
	(A) Fly levelling	
	(B) Differential levelling	
166	(C) Simple levelling	
	(D) Trigonometric levelling	
	Ans. D	
166	Reciprocal levelling is used when,	
	(A) Flat terrain	
	(B) Obstacles are there	

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	(B) 3
	(C) 2
	(D) 4
	Ans. C
174	Indirect methods uses how many methods?
	(A) 3
	(B) 4
	(C) 2
	(D) 6
	Ans. A
175	The commonly used squares in the method of a square is:
	(A) 10m x 10m to 5m x 5m
	(B) 10m x 10m to 15m x 15m
	(C) 5m x 5m to 20m x 20m
	(D) 5m x 5m to 10m x 15m
	Ans. C
176	Which of the below methods is used for interpolating contour points between 2 points?
	(A) Arithmetic calculation
	(B) Using measuring tapes
	(C) Taking pictures of area
	(D) Using a theodolite
	Ans. A
177	The contour interval is the same for all purposes.
	(A) True
	(B) False
	(C)
	(D)
	Ans. B
178	The curves used for drawing lines between points in a contour line is:
	(A) Radial curve
	(B) French curve
	(C) C-curve
	(D) Inverted curve
	Ans. B
179	Which shaped lines indicate the presence of a ridge?
	(A) V-shaped
	(B) U-shaped
	(C) L-shaped
	(D) S-shaped
100	Ans. B
180	The line which separates the catchment basin from the rest of the area is:
	(A) Ridge line

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- (C) Catchment line
- (D) Watershed line

Ans. D

181 Which of the below is used up to a range of 100km?

- (A) Infrared
- (B) Microwave
- (C) Visible range
- (D) Ultra-violet

Ans. B

182 A total station is a combination of:

- (A) EDM and Theodolite
- (B) Compass and EDM
- (C) Electronic Theodolite and EDM
- (D) EDM and electronic Compass

Ans. C

183 Which unit in total station processes data collected?

- (A) Data collector
- (B) EDM
- (C) Storage system
- (D) Microprocessor

Ans. D

184 Which is the latest development in a total station?

- (A) High resolution
- (B) High accuracy
- (C) Robotic
- (D) Automatic

Ans. C

185 Which of the below is not an application of total station?

- (A) Crime scene investigation
- (B) Furniture manufacture
- (C) Mining
- (D) Archaeology

Ans. B

186 What is the range of medium range EDM?

- (A) <5kms
- (B) 15-25kms
- (C) 5-25kms
- (D) > 25 kms

Ans. C

187 Each point entered in a total station is stored in:

(A) Hard discs

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	(B) Electronic books	
	(C) Data storage	
	(D) Chip	
	Ans. B	
188	Which of the below is a commercial element in highway construction?	
100	(A) Traffic	
	(B) Installation technique	
	(C) Environmental aspects	
	(D) Material	
	Ans. C	
189	can provide a 3-5 dB reduction in tyre-pavement noise emiss	sions.
10)	(A) Asphalt	JOHS.
	(B) Bituminous	
	(C) Rubberised asphalt	
	(D) Concrete	
	Ans. C	
190	In a building, to provide ultimate comfort to occupants can be u	ısed.
	(A) AC	.sea.
	(B) HVAC	
	(C) Ventilators	
	(D) HAC	
	Ans. B	4
191	Which IS codes gives details about elevators?	
	(A) IS 27752	
	(B) IS 38665	
	(C) IS 14665	
	(D) IS 27855	
	Ans. C	
192	The slope of a ramp should not be more than:	
	(A) 1 in 35	
	(B) 1 in 20	
	(C) 1 in 15	
	(D) 1 in 10	
	Ans. C	
193	How many types of ventilation are there?	
	(A) 3	
	(B) 4	
	(C) 2	
	(D) 5	
	Ans. A	
194	A fire detector cannot detect:	
	(A) Radiation	



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- (B) Heat
- (C) Light
- (D) Smoke

Ans. C

- 195 When exposed to fire, concrete has very little strength left after:
 - (A) 500°C
 - (B) 300°C
 - (C) 200°C
 - (D) 600°C

Ans. D

- 196 Desiccants are chemicals that:
 - (A) Remove humidity
 - (B) Add humidity
 - (C) Add moisture
 - (D) Remove moisture

Ans. D
